CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-02-06** **Date: 05-11-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-06/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	243	243	1.6	98.4	90-100
3	20 mm	5788	6031	40.2	59.8	30-70
4	10 mm	4233	10264	68.4	31.6	10-35
5	4.75 mm	4534	14798	98.7	1.3	0-5
6	Pan	202	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-02-06** **Date: 05-11-17**

Sample ID No : 2017-11-02-06/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.55	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

Note:
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CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-11-06-02** **Date: 10-11-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-17
Sample ID No	:	2017-11-06-02/03
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-11-06-02** **Date: 10-11-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/36/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-17

Sample ID No : 2017-11-06-02/02(b)

Sample Type /Size : Precast Cover Slab (250 mm Thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.42	250.45	2.820	17767	364.2	20.5	20.5	25.6
2	Cover Slab-2	150.49	250.46	2.350	17784	372.4	20.9	20.9	26.2
3	Cover Slab-3	150.45	250.49	2.310	17774	374.9	21.1	21.1	26.4

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-11-06-02** **Date: 10-11-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/36/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-17

Sample ID No : 2017-11-06-02/02(a)

Sample Type /Size : Precast Cover Slab (100 mm Thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.47	1.320	4478	81.2	18.1	16.9	21.1
2	Cover Slab-2	75.49	100.48	1.350	4475	82.4	18.4	17.1	21.4
3	Cover Slab-3	75.48	100.49	1.310	4474	81.9	18.3	17.0	21.3

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-11-06-02** **Date: 08-11-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-17
Sample ID No	:	2017-11-06-02/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	07-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	679	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	569	685	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-13-03** **Date: 17/11/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/36/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-11-17

Sample ID No : 2017-11-13-03/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	10/11/2017	17/11/2017	150.32 X 150.34 X 150.35	22599	8.361	381.9	16.9	17.2
2	Drain Concrete	M20	10/11/2017	17/11/2017	150.42 X 150.38 X 150.40	22620	8.322	391.3	17.3	
3	Drain Concrete	M20	10/11/2017	17/11/2017	150.42 X 150.44 X 150.45	22629	8.401	393.7	17.4	

Note:

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 05-11-17

Lab ID	:	**CP-2017-11-02-06**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Providing Covering Slabs at Singapura Main Road I-F of Ward Office in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-06/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-11-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	88	88	8.8	91.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	242	24.2	75.8	60-95	75-100	85-100	95-100
4	1.18 mm	178	420	42.0	58.0	30-70	55-90	75-100	90-100
5	600 micron	188	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	174	782	78.2	21.8	5-20	8-30	12-40	15-50
7	150 micron	144	926	92.6	7.4	0-10	0-10	0-10	0-15
8	Pan	74	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-02-06** **Date: 05-11-17**

Sample ID No : 2017-11-02-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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